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Conjugacy Structure Type and Degree Structure Type in Finite p-groups

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Abstract: Let G be a finite p-group, and denote by k(G) number of conjugacy classes in G. The aim of this paper is to introduce the conjugacy structure type and degree structure type for p-groups, and determine these parameters for p-groups of order p^5, and calculate k(G) for them.

Key Words: breadth, conjugacy structure type, degree structure type.